



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



STEVEN E. CHESTER
DIRECTOR

December 7, 2004

Mr. Chuck Geadelmann, P.E.
Corporate Manager, Remediation & Evaluation Services
Honeywell
7171 Ohms Lane
Edina, MN 55439

US EPA RECORDS CENTER REGION 5



Dear Mr. Bondy:

SUBJECT: Progress Report No. 60, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 60, received on November 29, 2004 and has been entered into the administrative record. Under activities completed for this reporting period, the MDEQ has not received the Accelerated Interim Response Actions Report as stated in the Progress Report. I have notified MACTEC of this inaccuracy.

If you have any questions regarding this matter, please contact me.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

cc: Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman, Williams, Acosta
Mr. Raymond Scott, City of Detroit
Ms. Sharon Newlon, Dickinson Wright
Mr. Grant Trigger, Honigman and Miller
Mr. Garret E. Bondy, MACTEC
Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Peter Quackenbush, DEQ



STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



JENNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

November 12, 2004

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

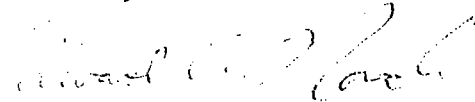
Dear Mr. Metcalf:

SUBJECT: Progress Report No. 59, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 59, received on October 25, 2004 and
has been entered into the administrative record.

If you have any questions regarding this matter, please contact me.

Sincerely,


Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

drs

cc: Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon
Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ



STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



JENNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

July 6, 2004

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 55, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 55, received on June 24, 2004 and
has been entered into the administrative record.

If you have any questions regarding this matter, please contact me.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

drs

cc: Ms. Dana Rzeknik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon
Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



STEVEN E. CHESTER
DIRECTOR

December 30, 2003

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 49, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 49, received on December 22, 2003
and has entered it into the administrative record.

If you have any questions regarding this matter, please contact me.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

drs

cc: Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon
Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



STEVEN E. CHESTER
DIRECTOR

September 12, 2003

RECEIVED

SEP 17 2003

Corrective Action Section
Waste Management Branch
Waste, Pesticides and Toxics Division
U.S. EPA - Region 5

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 45, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 45, received on August 26, 2003 and
has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this
office at (313) 456-4668.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

drs

cc: Ms. Dana Rzeznik, USEPA
~~Mr. Gregory Badloff, USEPA~~
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon
Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



STEVEN E. CHESTER
DIRECTOR

August 4, 2003

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 44, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 44, received on July 24, 2003 and
has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this
office at (313) 456-4668.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

drs

cc: Ms. Dana Rzeznek, USEPA
~~Mr. Gregory Rudolph, USEPA~~
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon
Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



STEVEN E. CHESTER
DIRECTOR

June 30, 2003

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 43, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 43, received on June 23, 2003 and
has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this
office at (313) 456-4668.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

drs

cc: Ms. Dana Rzeznik, USEPA
~~Mr. Gregory Rudloff, USEPA~~
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon
Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ



STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



JENNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

March 6, 2003

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 39, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 39, received via e-mail February 25, 2003 and by hardcopy on February 28, 2003 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 456-4668.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



RUSSELL J. HARDING
DIRECTOR

October 8, 2002

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 34, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 34, received September 25, 2002 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 456-4668.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Remediation and Redevelopment Division
313-456-4668

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



RUSSELL J. HARDING
DIRECTOR

September 3, 2002

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 33, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 33, received August 26, 2002 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 456-4668.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Environmental Response Division
313-456-4668

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



RUSSELL J. HARDING
DIRECTOR

July 31, 2002

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 32, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 32, received July 25, 2002 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 456-4668.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Environmental Response Division
313-456-4668

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
DETROIT



RUSSELL J. HARDING
DIRECTOR

June 5, 2002

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 30, Interim Response Plan for the Former Detroit
Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 30, received May 24, 2002 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 456-4668.

Sincerely,

Edward A. Novak
Senior Environmental Quality Analyst
Environmental Response Division
313-392-6527

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon

STATE OF MICHIGAN



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

CONSTITUTION HALL, 525 WEST ALLEGAN, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

December 21, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 25, Interim Response Plan for the Former Detroit Coke Corporation
Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 25, received December 21, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in cursive script that reads "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon

STATE OF MICHIGAN



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

November 28, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 24, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 24, received November 26, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in black ink, reading "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

November 1, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 23, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 23, received October 25, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in black ink, appearing to read "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

October 1, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 22, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 22, received September 26, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in cursive script that reads "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor
DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

September 4, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 21, Interim Response Plan for the Former Detroit Coke Corporation
Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 21, received via e-mail on August 27, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor
DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"
HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973
INTERNET: www.deq.state.mi.us
RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

August 1, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 20, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 20, received in hardcopy on July 26, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in dark ink, appearing to read "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

July 2, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 19, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 19, received in hardcopy on June 22, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
~~Mr. Gregory Dandloff, USEPA~~
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor
DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"
HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

June 8, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 18, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 18, received in hardcopy on May 30, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in cursive script, reading "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor
DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

April 27, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 17, Interim Response Plan for the Former Detroit Coke Corporation
Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 17, received on April 24, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in cursive script that reads "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor
DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

March 5, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 16, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 16, received on March 26, 2001 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in cursive script, reading "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

March 5, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 15, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 15, received on February 26, 2000 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in black ink that reads "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon



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INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

February 2, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 14, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 14, received on January 25, 2000 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in cursive script that reads "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
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INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

DETROIT OFFICE
SUITE 3600
300 RIVER PLACE
DETROIT MI 48207

January 5, 2001

Mr. Timothy J. Metcalf
Honeywell, (AlliedSignal Inc.)
P.O. Box 1139
101 Columbia Road
Morristown, New Jersey 07962-1139

Dear Mr. Metcalf:

SUBJECT: Progress Report No. 13, Interim Response Plan for the Former Detroit Coke Corporation Property, Detroit, Michigan

The MDEQ has reviewed the Progress Report No. 13, received on December 26, 2000 and has entered it into the administrative record.

If you have any questions regarding this matter, please contact Mr. Edward A. Novak of this office at (313) 392-6527.

Sincerely,

A handwritten signature in black ink, appearing to read "Edward A. Novak".

Edward A. Novak
Environmental Quality Analyst

cc: Mr. Oladipo Oyinsan, DEQ
Mr. Steve Hoin, DEQ
Ms. Caroline Olmsted, DEQ
Mr. Pete Quackenbush, DEQ
Ms. Dana Rzeznik, USEPA
Mr. Gregory Rudloff, USEPA
Mr. Alan Wasserman
Mr. Raymond Scott
Ms. Sharon Newlon

DETROIT COKE CORPORATION

BOX 09229/DETROIT, MI 48209/(313) 842-6222

August 2, 1995

Mr. Richard J. Zdanowicz
United States Environmental Protection Agency
Chief, Underground Injection Control Section
Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3590

RECEIVED

AUG 08 1995

**OFFICE OF RCRA
WASTE MANAGEMENT DIVISION
EPA, REGION V**

**RE: DETROIT COKE CORPORATION, RCRA CORRECTIVE ACTION RELEASE
ASSESSMENT-FIRST QUARTERLY PROGRESS REPORT**

Dear Mr. Zdanowicz:

Enclosed is the First Quarterly Progress Report summarizing project activities associated with the RFI Release Assessment being conducted at the Detroit Coke facility, located in Detroit, Michigan.

As a matter of clarification, I recently had a discussion with Alan Melcer of your division regarding the schedule for the Release Assessment. As I currently understand it, the schedule presented as Figure 5-1 in the Release Assessment Work Plan is applicable. Please inform me if this is not the case.

If you have any comments or additional concerns I may be contacted at (313) 842-6222.

Sincerely,

Paul K. Choinski

Paul K. Choinski
Facility Manager
On behalf of Detroit Coke Corporation

cc: Craig Vanden Berge, Horizon Environmental (w/o attachments)
Greg Rudloff, U.S. EPA Waste Management Division (w/ attachments)
Allen Melcer, U.S. EPA Underground Injection Control Section (w/ attachments)

FIRST QUARTERLY PROGRESS REPORT (JULY 1995)
for the
RELEASE ASSESSMENT PHASE OF THE RCRA FACILITY
INVESTIGATION
being implemented at the
DETROIT COKE FACILITY, DETROIT, MICHIGAN

Condition D of Detroit Coke's RCRA permit (number M1-163-1W-0004) identifies 13 SWMUs requiring possible investigation and corrective actions. In the RCRA Corrective Action framework, the purpose and objective of a Release Assessment (RA) is to document the presence or absence of hazardous wastes or constituents at individual SWMUs in order to determine whether further investigation is warranted during the RCRA Facility Investigation (RFI).

Detroit Coke Corporation has elected to conduct an RA at SWMUs 1, 2, 18 and 20, based on historical records and known housekeeping practices which suggest that a release has not occurred at these units.

In accordance with RCRA Corrective Action guidance, and the approved RA work plan, Quarterly Progress Reports will be submitted to U.S. EPA following initiation of the field sampling activities and through submittal of a draft final report summarizing RA activities and findings. This is the first Quarterly Progress Report and it includes the following:

- A description and estimate of the percentage of the RA completed;
- Summaries of all findings;
- Summaries of all changes made in the RA during the reporting period;
- Summaries of all contacts with representative of local community public interest groups or State government during the reporting period;
- Summaries of all problems or potential problems encountered during the reporting period;
- Actions being taken to rectify problems;
- Changes in personnel during the reporting period;
- Projected work for the next reporting period; and
- Copies of daily reports, inspection reports, laboratory/monitoring data, etc.

DESCRIPTION AND ESTIMATE OF THE PERCENTAGE OF THE RA COMPLETED:

RA field work began on June 5th, 1995 and was completed on June 9th, 1995. Although this period of time is small relative to the overall project duration the field activities constitute approximately 75% of the scope of work included by the RA.

SUMMARY OF FINDINGS:

Hydrogeology;

Only minimal subsurface investigation was conducted as part of the RA. Shallow monitoring wells were installed at SWMUs #1, #2, and #20. Additionally, relevant hydrogeological information was obtained as a result of drilling shallow monitoring wells at 2 background locations located along the north perimeter of the site. The following salient hydrogeological information was gleaned as a result of drilling at these SWMUs and background locations.

SWMU #1- Static water level of ~8.7 feet below ground level was measured at MW-2-95 (relative elevation 94.52). MW-2-95 was drilled to a total depth of 13 feet. The sediments encountered consisted of 7 feet of fill underlain by 6 feet of coarse sand to fine gravel.

SWMU #2- MW-1-95 was drilled to a total depth of 13 feet. The sediments encountered consisted entirely of fill material (e.g., coal fines, cinders, slag). A static water level was established at a depth of ~8.9 feet below ground level (relative elevation 94.28).

SWMU #20- MW-3-95 was drilled to a total depth of 5.2 feet. Sand and gravel were encountered during drilling. The water level in MW-3-95 is ~1.8 feet below ground (relative elevation 100.76).

Background

Locations- Ground water was encountered at ~2.76 feet below ground while drilling MW-4-95 (relative elevation 105.24) and at ~4.89 feet below ground at MW-5-95 (relative elevation 102.69).

The resultant ground water flow direction is toward the Detroit River, ranging from ~S-23°-E to ~S-11°-E relative to the site's grid north, at an average gradient of ~0.006 feet/foot. The attached preliminary sketch illustrates the direction of ground water flow.

Field observations of note;

SWMU #1- A strong diesel odor was noted at the 8-10 foot depth interval along with a visible sheen during the drilling of MW-2-95. It will likely be recommended that this SWMU undergo further investigation during the RFI.

SWMU #2- Slightly elevated PID readings (12-30 ppm) were observed during the drilling of MW-1-95.

SWMU #18- Nothing unusual.

SWMU #20- Nothing unusual.

Background

Locations- Nothing unusual.

Sample analyses;

Analytical work is being conducted at Earth Tech's Environmental Laboratory, in Grand Rapids Michigan. Samples were delivered to the lab under strict chain-of-custody on June 13th, 1995. Final analytical reports are expected from the lab on July 12, 1995. The "CLP like" QC package will follow shortly there after. The data and QC package will be forwarded to Mr. Richard Rediske, Ph.D. for data validation. The following analyses were conducted:

SWMU #1- 2 soil samples, 1 water sample.

Volatile Organic Compounds (BTEX) by U.S. EPA Method 8240.

Semi-Volatile Organic Compounds (PNA's) by U.S. EPA Method 8270.

SWMU #2- 5 soil samples, 2 water samples.

Volatile Organic Compounds (BTEX) by U.S. EPA Method 8240.

Semi-Volatile Organic Compounds (BNA's with pyridine) by U.S. EPA Method 8270.

SWMU #18- 2 soil samples.

Volatile Organic Compounds by (BTEX) U.S. EPA Method 8240.

Semi-Volatile Organic Compounds (BNA's with pyridine) by U.S. EPA Method 8270.

SWMU #20- 6 soil samples, 1 water sample.

Volatile Organic Compounds by (BTEX) U.S. EPA Method 8240.

Semi-Volatile Organic Compounds (BNA's with pyridine) by U.S. EPA Method 8270.

Background Locations-

9 soil samples, 2 water samples.

Semi-Volatile Organic Compounds (PNA's) by U.S. EPA Method 8270.

The preliminary ground water analytical data are plotted on the attached figure. Additionally, the current ground water cleanup criteria, as specified by the Natural Resources and Environmental Protection Act, Michigan P.A. 451, Part 201, Operational

Memorandum #14, June 6, 1995, interim draft generic industrial criteria for relevant constituents are listed. These data, although preliminary, suggest only a minor excursion of the generic health-based drinking water criteria for benzene at MW-1-95, 2-95 and 3-95. No other excursions were detected.

SUMMARY OF CHANGES MADE IN THE RA DURING THE REPORTING PERIOD:

No changes in the scope of work approved by U.S. EPA for the RA were made.

SUMMARY OF CONTACTS WITH REPRESENTATIVE OF LOCAL COMMUNITY PUBLIC INTEREST GROUPS OR STATE GOVERNMENT DURING THE REPORTING PERIOD:

No contacts of this nature were made, however, U.S. EPA was on site for the majority of the time RA field work was being conducted.

SUMMARY OF PROBLEMS OR POTENTIAL PROBLEMS ENCOUNTERED DURING THE REPORTING PERIOD:

No problems or potential problems were encountered during the reporting period.

ACTIONS BEING TAKEN TO RECTIFY PROBLEMS:

No problems or potential problems were encountered during the reporting period.

CHANGES IN PERSONNEL DURING THE REPORTING PERIOD:

An intern geologist, employed by Horizon for the summer, was added to the field staff for support and training.

PROJECTED WORK FOR THE NEXT REPORTING PERIOD:

Initial data evaluation and report preparation will take place, including;

- * interpretation of site hydrogeology,
- * distribution of analytes at SWMUs, and
- * recommendations for the scope of work to be implemented during the RFI.

COPIES OF DAILY REPORTS, INSPECTION REPORTS, LABORATORY/MONITORING DATA:

A copy of the field notes collected by the Horizon Senior Field Technician is included as Attachment I to this report.

ATTACHMENT I

DAILY FIELD NOTES

for the

RCRA CORRECTIVE ACTION

RELEASE ASSESSMENT AT THE DETROIT COKE FACILITY, DETROIT, MICHIGAN

IF FOUND PLEASE RETURN TO:

NAME _____

COMPANY _____

STREET _____

CITY _____ STATE _____ ZIP _____

PHONE _____



JOB BOOK

FROM DENVER, CO. 80202

PROJECT NAME _____

PROJECT NUMBER _____

CREW _____

DATE _____ BOOK # _____

WEATHER _____

FIELD BOOK

16 PAGES

8 TABS

51% KAT

CURVE FORMULAS

$$\begin{array}{lll} T = R \tan \frac{1}{2} I & R = T \cot. \frac{1}{2} I & \text{Chord def.} = \frac{\text{chord}^2}{R} \\ T = \frac{50 \tan \frac{1}{2} I}{\sin. \frac{1}{2} D} & R = \frac{50}{\sin. \frac{1}{2} D} & \text{No. chords} = \frac{I}{D} \\ \sin. \frac{1}{2} D = \frac{50}{R} & E = R \text{ ex. sec } \frac{1}{2} I & \text{Tan. def.} = \frac{1}{2} \text{ chord def.} \\ \sin. \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T} & E = T \tan \frac{1}{2} I & \end{array}$$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve. very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

RIGHT ANGLE TRIANGLES. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. 10. $10^2 + 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 + 200 = 3.125$. $100 - 3.125 = 96.875 = \text{Base}$.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

LEVELING. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574 d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{1}{3} d^2$. The combined correction is negative.

PROBABLE ERROR. If d_1, d_2, d_3 , etc. are the discrepancies of various results from the mean, and if $\sum d^2$ = the sum of the squares of these differences and n = the number of observations, then the probable error of the mean = $\pm 0.6745 \sqrt{\frac{\sum d^2}{n(n-1)}}$

MINUTES IN DECIMALS OF A DEGREE

1'	.0167	11'	.1833	21'	.3500	31'	.5167	41'	.6833	51'	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1-16	3-32	1/4	3-16	1/2	5-16	3/4	7/8	1	1 1/8	1 1/4	1 1/2
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729	.0833
1	2	3	4	5	6	7	8	9	10	11	12
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167	1.0000

①

June 3 1993

Detroit Coke

TRA Investigation

1140 hrs arrived on site and met with Bob and Tim Metcalf

We discussed a meeting time with Craig VanderBorg and Charlene McGue, tentatively around 12 noon

1150 hrs Eric Wahlberg & I drove site to review SWMU's where samples will be collected. We elected to run an E/W base line (grid line) along the North edge of property adjacent to fence line.

1240 Eric & I met with Craig & Charlene at Detroit Coke Security office at which time we met Paul Chomski

USEPA rep's were on site but were leaving for lunch during our meeting.

Craig Charlene Eric & I reviewed SWMU's # 1, 2, 18 & 20 and staked sample locations

②

June 5 1995

1320 hrs Craig & Charlene left site and Eric and I left site for lunch.

1410 hrs Eric and I back on site and began layout of Grid.

Completed Base Line E & W (not true) and ran two line N & S (will assign coordinates tomorrow)

1730 hrs Eric & I left site

E/C/wh

June 6 95

Detroit Coke

RA Investigation

0745 hrs arrival on site after equip pickup and continued work of grid extensions

1000 hrs Talked with Paul C regarding start of sampling at Background locations.

Paul expressed concern that the locations staked for Charlene & Craig were agreeable with USEPA Rep and suggested we wait until they were back on site around 1130 hrs.

Note: Joe working at moving debris from Flare Stake loc. SWMU #18.

1020 hrs Left site to pick up DJL water's

1100 hrs Back on site and began sampling at SWMU #2

With first sample at The SE cor of ramp Drive DC-SS01-9502-01 @

1146 hrs P.D. shows 0.0 PPM

1205 hrs USEPA Rep on site Greg

Second sample at ~~the~~ Eastern most

Loca along N side of SUMM#2 1TD

DC-SS02-9502-02 2'-3' PID 0.0 ppm

1230-1310 Lunch and pick up ICE

1330 Sample at loca west of Previous

Loca DC-SS03-9502-03

2'-3' PID shows 0.0 ppm

1350^{hrs} Move to Background Sampling
at Eastern most Loca

First Background Sample Loca is
West of Eastern most Loca.

1TD DC-BG01-9502-04 PID 0.0 ppm

Second Background Sample BG-BG02-9502-05
PID 0.0 ppm

Third Background DC-BG03-9502-06
PID 0.0 ppm (Had zero Air too High
Failut But move towards river & recalc
PID)

Work Per TIN SUMM#1 2@10' 1 well

SUMM#2 4@18' 1 well

SUMM#18

SUMM#20 4-6' 1 well

WT 3.0 Fourth Background Sample

DC-BG04-9502-07 @ 1650

PID 0.0 ppm

WT 3.2 Fifth Background Sample at 1735^{hrs}

DC-BG05-9502-08 PID reading

@ 0.0 ppm

Sixth Background Sample at 1800^{hrs}

WT 2.8 DC-BG06-9502-09 PID 0.0 ppm

Seventh Bkgd DC-BG07-9502-10

WT 2.0 End 10 - DUP PID: 0.0 ppm @
1830^{hrs}

1900^{hrs} END #1 Left Site

Ed Baker

June 7 1995

0730 hrs On site and set up to
Sample Background #08

DC-BG08-9502-11 @ 0750 hrs
3.0 PID @ 0.0 ppm

0800 DC-BG08-9502-11 EB

(1 Liter Ambrox + 2 VOC)

0840^N retake of BG03

DC-BG03-9502-12 PID 0.0 ppm

0900 Start on BM Survey

Starting from Eastern most Tie for Truck
Ferry at rivers edge river side of Pylon
Elev. 100.00

+ 8.44

108.44

108.440 HI

- 2.63

- 2.705

Light Pole
W of
SWMU #20

105.81 BM #2

105.735 BM #1 SWMU #2

108.44

108.440

2.04

106.406 BM #3

106.400

106.38 HI

- 2.30 RP on Metal Tower

109.32

- 3.87

105.45

105.735

+ 3.57

109.605

- 3.72

105.885

BM #2 recheck

109.32

100.00

+ 9.61

109.61 HI

- 3.83

105.78

109.61

- 2.38

107.336

+ 2.325

109.665

- 3.20

106.465

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111.17

+ .61

112.38 HI

- 3.39

108.99 BM #8

+ 3.15

112.14 HI

- 3.8

111.70

BM #10

+ 1.70

109.98

BM #9

+ 1.70

108.28

BM #8

+ 1.70

106.58

BM #7

+ 1.70

104.88

BM #6

+ 1.70

103.18

BM #5

+ 1.70

101.48

BM #4

+ 1.70

99.78

BM #3

+ 1.70

98.08

BM #2

+ 1.70

96.38

BM #1

+ 1.70

94.68

BM #0

+ 1.70

92.98

BM #0

+ 1.70

91.28

BM #0

+ 1.70

89.58

BM #0

+ 1.70

87.88

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+ 1.70

86.18

BM #0

+ 1.70

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BM #0

+ 1.70

53.88

BM #0

+ 1.70

52.18

BM #0

+ 1.70

50.48

BM #0

+ 1.70

48.78

BM #0

+ 1.70

47.08

BM #0

+ 1.70

45.38

BM #0

+ 1.70

43.68

BM #0

+ 1.70

41.98

BM #0

+ 1.70

40.28

BM #0

+ 1.70

38.58

BM #0

+ 1.70

36.88

BM #0

+ 1.70

35.18

BM #0

+ 1.70

33.48

BM #0

+ 1.70

31.78

BM #0

+ 1.70

30.08

BM #0

+ 1.70

28.38

BM #0

+ 1.70

26.68

BM #0

+ 1.70

24.98

BM #0

+ 1.70

23.28

BM #0

+ 1.70

21.58

BM #0

+ 1.70

19.88

BM #0

+ 1.70

18.18

BM #0

+ 1.70

16.48

BM #0

+ 1.70

14.78

BM #0

+ 1.70

13.08

BM #0

+ 1.70

11.38

BM #0

+ 1.70

9.68

BM #0

+ 1.70

7.98

BM #0

+ 1.70

6.28

BM #0

+ 1.70

4.58

BM #0

+ 1.70

2.88

BM #0

+ 1.70

1.18

BM #0

+ 1.70

-0.52

BM #0

+ 1.70

-2.22

BM #0

+ 1.70

-3.92

BM #0

+ 1.70

-5.62

BM #0

+ 1.70

-7.32

BM #0

+ 1.70

-9.02

BM #0

+ 1.70

-10.72

BM #0

+ 1.70

-12.42

BM #0

+ 1.70

-14.12

BM #0

+ 1.70

-15.82

BM #0

+ 1.70

-17.52

BM #0

+ 1.70

-19.22

BM #0

+ 1.70

-20.92

BM #0

+ 1.70

-22.62

BM #0

+ 1.70

-24.32

BM #0

+ 1.70

-26.02

BM #0

+ 1.70

-27.72

BM #0

+ 1.70

-29.42

BM #0

+ 1.70

-31.12

BM #0

+ 1.70

-32.82

BM #0

+ 1.70

-34.52

BM #0

+ 1.70

-36.22

BM #0

+ 1.70

-37.92

BM #0

+ 1.70

-39.62

BM #0

+ 1.70

-41.32

BM #0

+ 1.70

-43.02

BM #0

+ 1.70

-44.72

BM #0

+ 1.70

Move to SWMU #20

Sample DC-SS09-9502-18 @ 1636 B20-1

PID 25 ppm WT at 2.8'

Sample DC-SS10-9502-19 @ 1655 B20-2

PID @ 23 ppm WT at 2.9

1715 hrs End of 1st Site

Ed Kelly

June 8 1995

Detroit Coke

0730 hrs on site and met with T&T crew.

0750 hrs Begin work at SWMU #2

First Sample at 35-50'

DC-SS11-9502-20 @ 0810 PID 12.0 ppm
B2-1 ~~3-4'~~ 3-4'

DC-SS12-9502-21 @ 0812 PID 30 ppm

B2-1 6'-8' (Estimated soil 8-10 30 ppm)

Well constructed at B2-1 screened

7'-12' ± with filter truck & Bentonite Seal.

0915 hrs move to SWMU #1 with

First Sample @ ~~1111~~ B1-1 Canceled

AS DC-SS13-9502-22 B1-1 2-3

@ 0920 PID 0.0 ppm End of 1st

Next Sample DC-SS14-9502-23 B1-1

5'-6' @ 0930 PID 0.0 ppm

Saturated Sample @ 3.5 ppm PID

Well installation screened 6-11'

Equip Decon Screen cleaned

Next Sample DC-SS15-9502-24 B1-2

2'-3' and TIDP

PID 0.0 ppm @ 1105

Sample DC-SS16-9502-25

B1-2 4.5-6.5 @ 1110 PTD 0.0 PPM

Sample 8-10' wet & strong Diesel odor and Green. (no sample collection)

Obvious contamination of gd. water made well to river side of SWMU #1

Screened at 7'-12' below gd surface
Equip Steam cleaned and rinse tank collected

DC-SS17-9502-26-EB represents decon quality prior to collecting next Soil Sample

Sample DC-SS17-9502-26-B207-2-3

@ PTD 0.0

Sample DC-SS18-9502-27 B207-4'-6'

@ PTD 0.0

~~Wet~~ Green water at 6' strong odor no sample (Soil) collected

Move to SWMU #18

Sample DC-SS19-9502-28 B18-3-2'-3'

@ 1355 PTD 39 PPM

Sample DC-SS20-9502-29 B18-4-2'-3'

@ 1410 PTD 80 PPM

Move to SWMU #20

~~Sample DC-SS21-9502-30 B20-3~~

First Sample DC-SS21-9502-30 B20-3
1'-2'-3' also TDT

Second Sample DC-SS22-9502-31 B20-2

1'-2'-3' Sample saturated with Green and odor no sample collected

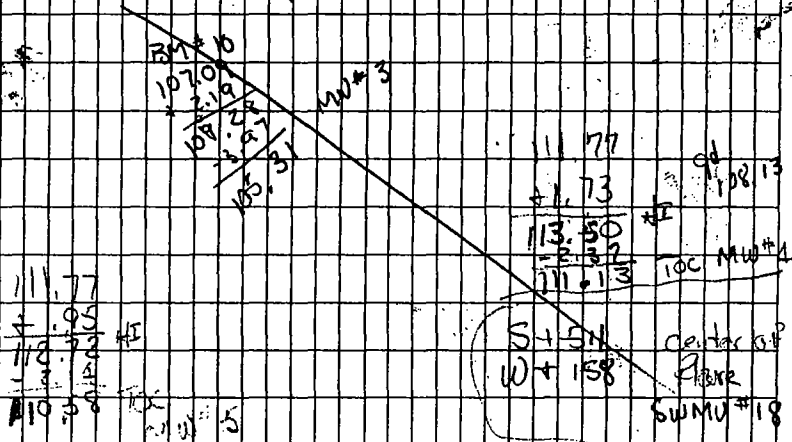
Well Box and Screened 0'-5'

DC-MW3-9502-3 B-20

Soils are cinders & slag with rubble at 4'-5'

2555
215
10
19
18
12

Survey Table Transferred



$$\begin{array}{r} 105.88 \text{ BM}^2 \\ +2.17 \\ \hline 108.05 \\ -3.55 \\ \hline 104.50 \end{array}$$

$$\begin{array}{r} 100 \text{ MU}^2 \\ 9d \\ 103.32 \end{array}$$

201 W
225 S

$$\begin{array}{r} 105.78 \text{ BM}^2 \\ +2.21 \\ \hline 107.99 \\ -3.54 \\ \hline 104.45 \end{array}$$

49 S of S-9 = S-9 49
28 E 08 W + 772

$$\begin{array}{r} 105.78 \\ +2.21 \\ \hline 107.99 \\ -3.54 \\ \hline 104.45 \end{array}$$

MU#1
TOC
9d 103.18

Ed Carline

June 9 1995

Detrital Core

0730 on site and begin MU

Three Sampling

MU#1 SWL 10.88 TOC
TD 14.6 TOC

Volumes removed before Sampling
@ 0830 hrs

MU#2 SWL 9.88 TOC
TD 14.0 TOC

Noticeable Shale on Face of first
volume sample @ 0930

MU#3 SWL 3.03 TOC
TD 7.0 TOC
Sample @ 1010

Rampal well dry

MU#4 SWL 5.61 TOC
TD 11.2 TOC

1200 hrs

MU#5 SWL 7.36 TOC
TD 11.0 TOC

Sample @ 1140 hrs

Over
Rull off UST

SUMW #20

June 9

More to area B 20

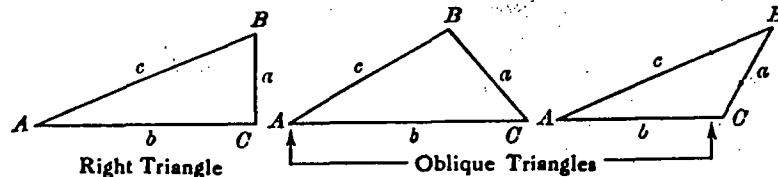
Example DC-SS 22 9502 31

@ 1240 B 20-5 ~~11-11~~ 1'-2'

Example DC-SS 23 ---- 32

@ 1300 B 20-6 - 1'-2'

TRIGONOMETRIC FORMULAS



Solution of Right Triangles

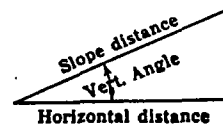
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\csc = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$, $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$, $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A$, $b = a \cot A$, $c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A$, $a = b \tan A$, $c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A$, $a = c \sin A$, $b = c \cos A$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, $C = 180^\circ - (A + B)$, $c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C$, $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}$, $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$, $C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}$, $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{bc \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

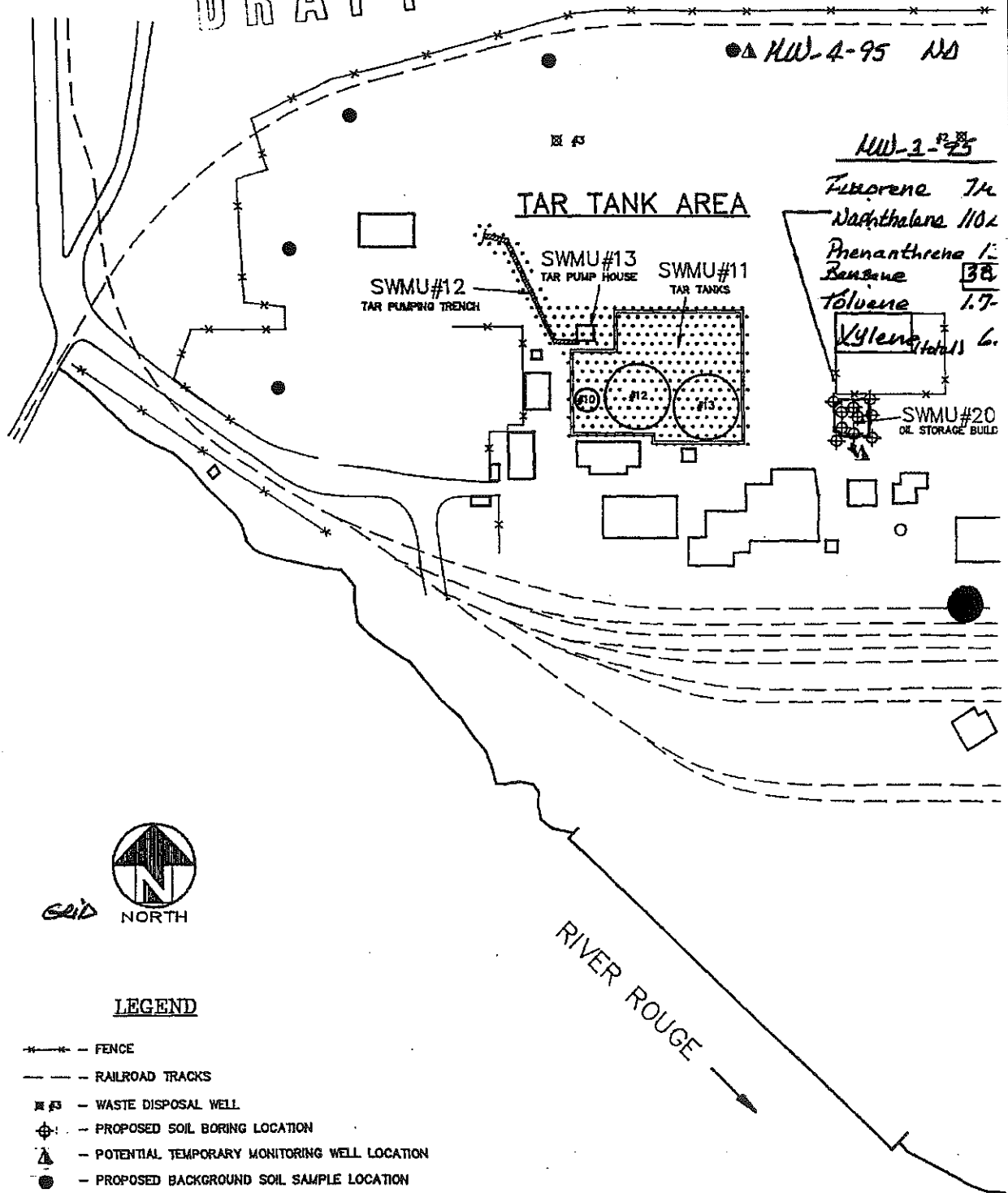
REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. Since $\cos 5^\circ 10' = .9959$, horizontal distance = $319.4 \times .9959 = 318.09$ ft.
Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. Cosine $5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft. slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.

DRAFT



NW-3-25

Fluorene 74
 Naphthalene 1102
 Phenanthrene 1:
 Benzene 38
 Toluene 1.7
 Xylene 6.

SWMU#20
OIL STORAGE BUILD



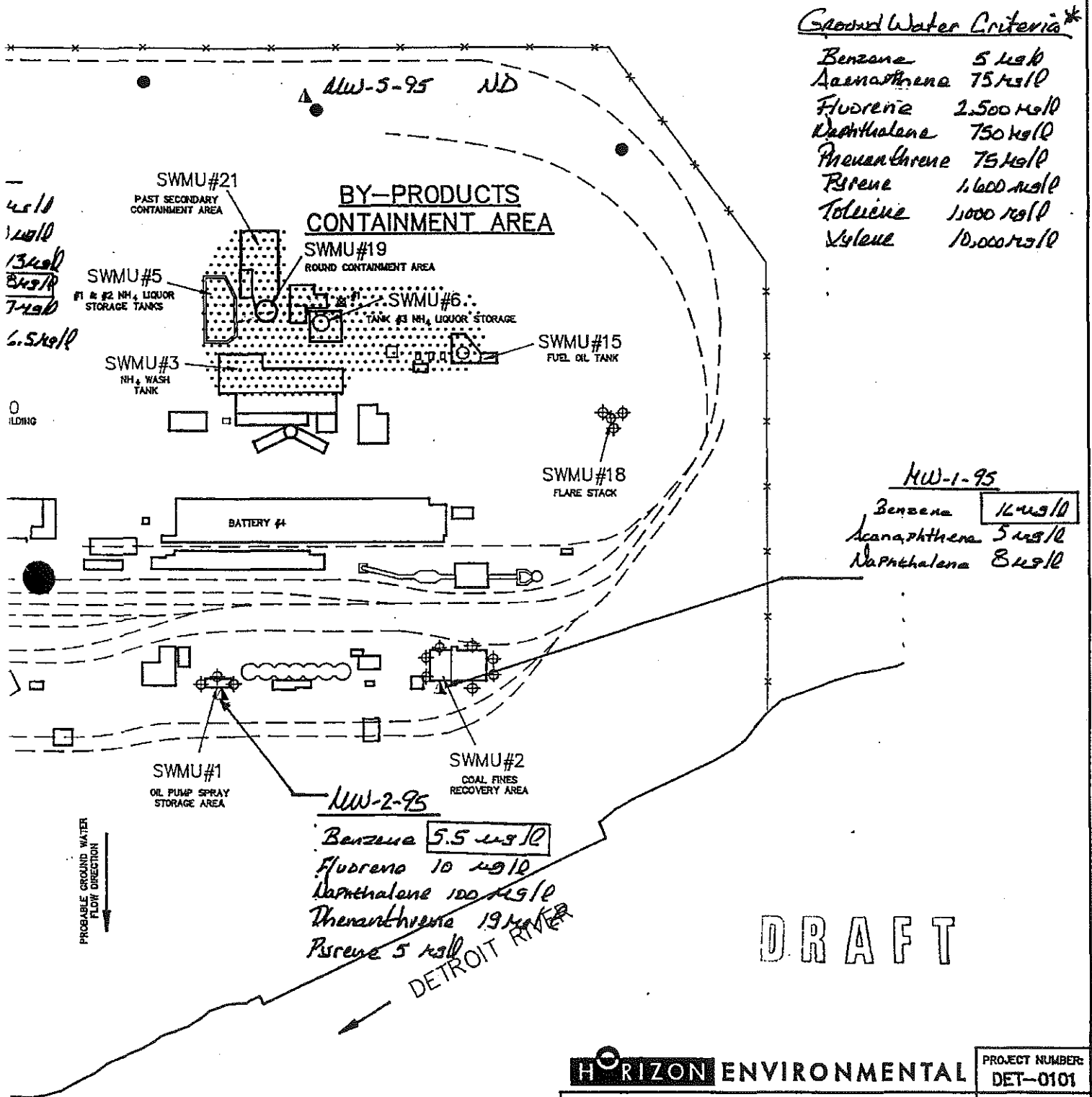
LEGEND

- FENCE
- RAILROAD TRACKS
- Waste DISPOSAL WELL
- PROPOSED SOIL BORING LOCATION
- POTENTIAL TEMPORARY MONITORING WELL LOCATION
- PROPOSED BACKGROUND SOIL SAMPLE LOCATION



SCALE IN FEET

* Natural Resources and Environmental Protection
Operational Memorandum #14, June 6.



703 Act, 1994 P.A. 451, Part 201

1995 (Interim Draft) Generic Industrial Criteria

HORIZON ENVIRONMENTAL

PROJECT NUMBER:
DET-0101

DETROIT COKE CORPORATION
DETROIT, MICHIGAN

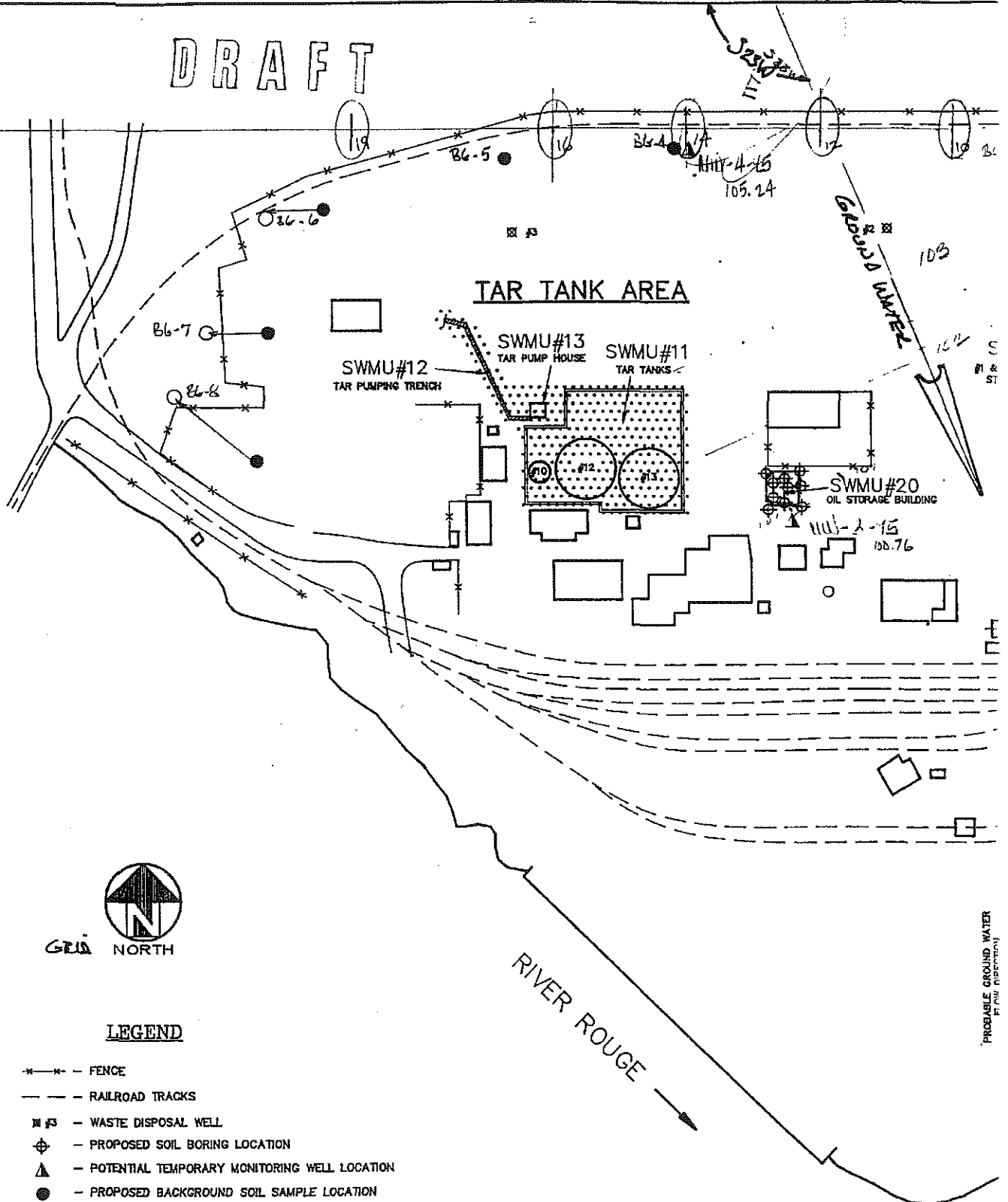
FIGURE:

2-2

RCRA FACILITY INVESTIGATION
RELEASE ASSESSMENT SAMPLING LOCATION MAP

DECEMBER, 1994

DRAFT



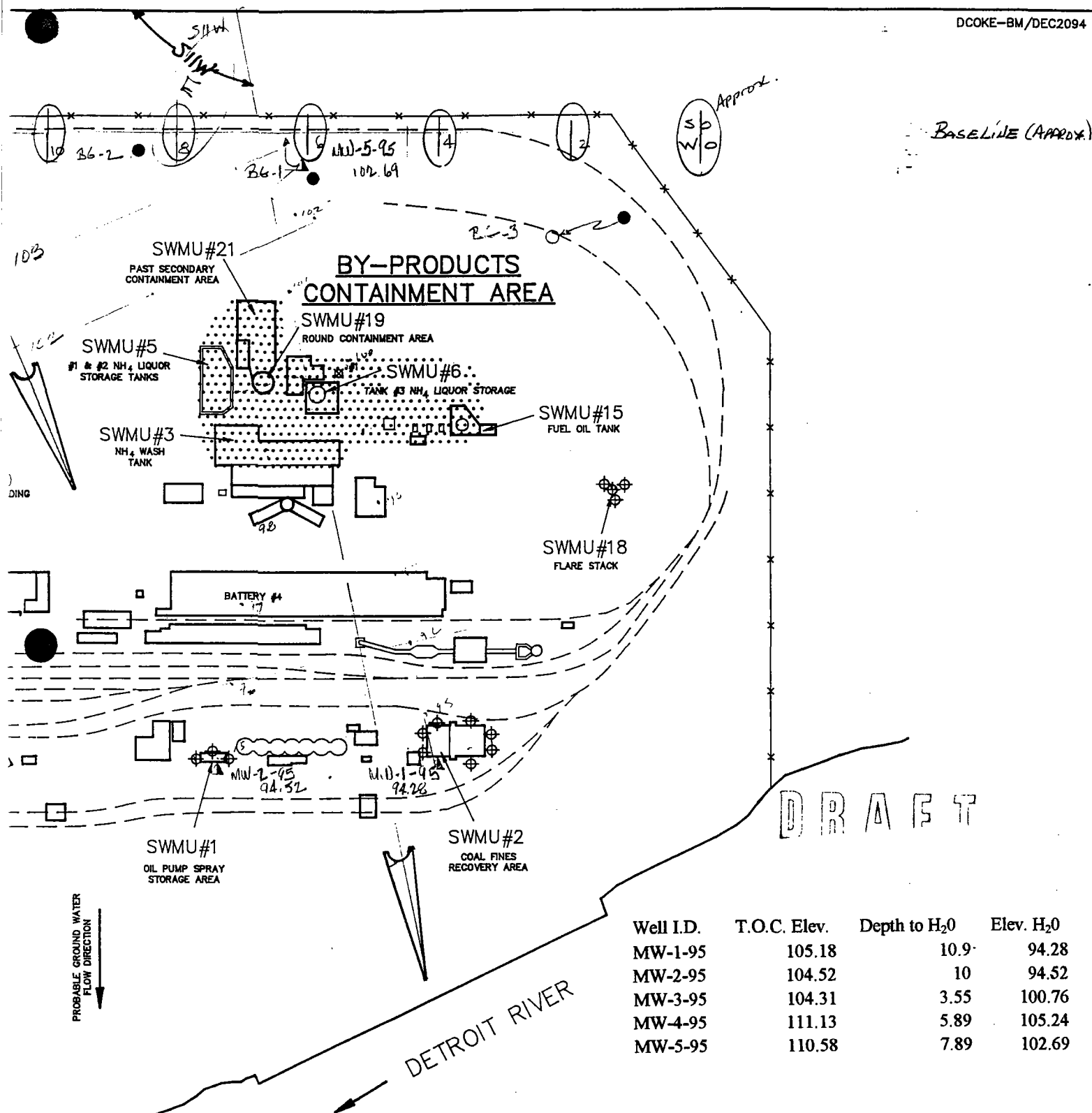
LEGEND

- FENCE
- RAILROAD TRACKS
- ⊠ -- WASTE DISPOSAL WELL
- ⊕ -- PROPOSED SOIL BORING LOCATION
- ▲ -- POTENTIAL TEMPORARY MONITORING WELL LOCATION
- -- PROPOSED BACKGROUND SOIL SAMPLE LOCATION



SCALE IN FEET
1" = 200'

PROBABLE GROUND WATER
TABLE

**HORIZON ENVIRONMENTAL**PROJECT NUMBER:
DET-0101DETROIT COKE CORPORATION
DETROIT, MICHIGAN**RCRA FACILITY INVESTIGATION
RELEASE ASSESSMENT SAMPLING LOCATION MAP****FIGURE:
2-2**

DECEMBER, 1994